

Technical Workshops Series – 2016

Two Day Intensive Workshop on **Confocal Microscopy**

- Organized by Venture Center -

Learn	Principles and applications of Confocal Microscopy; Live demonstrations on the latest instrument; Best practices; Troubleshooting and maintenance; Quick update on latest techniques/developments; Workshop is directed towards beginners and intermediate users of confocal microscopes.						
Organized by	Venture Center, Bioincubator and Cell studio at Venture Center						
For whom	<ul style="list-style-type: none"> Industry professionals Researchers, Students Maximum 20 seats; First-come-first-serve.						
When	Tuesday-Wednesday 2 - 3 February 2016 Time 0900-1800 hrs						
Where	Venture Center, 100 NCL Innovation Park, Dr. Homi Bhabha Road, Pune-411008						
Contact	Ms. Lipika Biswas Phone: +91-20-2586-5877 Email: eventsdesk@venturecenter.co.in						
Cost	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Students with valid ID card / VC resident companies</td> <td style="text-align: right; padding: 2px;">Rs 3000/-</td> </tr> <tr> <td style="padding: 2px;">Micro, small and medium enterprises/ individuals</td> <td style="text-align: right; padding: 2px;">Rs 4000/-</td> </tr> <tr> <td style="padding: 2px;">Large companies</td> <td style="text-align: right; padding: 2px;">Rs 6000/-</td> </tr> </table> <p>Register online at http://www.venturecenter.co.in/workshops/</p> <p>Note:-</p> <ul style="list-style-type: none"> Fees paid is not refundable and non transferable under any circumstances. Organizers reserve the right to accept or refuse or delay registrations so to optimize the composition of the group and hence maximize learning for all participants. 	Students with valid ID card / VC resident companies	Rs 3000/-	Micro, small and medium enterprises/ individuals	Rs 4000/-	Large companies	Rs 6000/-
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Introduction

This workshop provides a solid background on the use of light microscopy, especially laser confocal microscopy (LCM), as a tool to study cell biology at the molecular level.

The course consists of lectures which will give necessary theoretical background about LCM and lab sessions will be conducted on Leica SP-8 confocal laser scanning microscope. Participants are encouraged to bring their own samples during practical session.

The workshop will be conducted by an expert having vast experience working in the field of LCM.

The participants will also learn best practices in microscopy, troubleshooting and maintenance of microscopes. The workshop shall also discuss some recent trends and new developments.

Course Outline

The workshop will include theory as well as practical sessions. Workshop format will include:

- **Talks** – Basics of bright field microscopy, Fluorescence microscopy, LCM & its applications, Advanced applications of LCM & Laser sheet microscopy
- **Demonstrations** – Alignment of microscope, LCM, 3D imaging, Sample preparation, Time lapse cinematography, Apoptosis detection

Course includes


- Theory and practical sessions
- One-on-one interaction with the expert
- Access to restricted website with online compilation of resources for confocal microscopy
- Certificate of Participation issued by Venture Center
- Membership in events mailing list of Venture Center
- Tea and lunch at Venture Center cafeteria




***Please note, the participants will have to arrange for their own travel/local transport and accommodation and dinners.**

- For accommodation (standard and budgeted hotels) please visit:
<http://www.venturecenter.co.in/puneguide/standard.php>
- For accommodation (deluxe and luxury hotels) please visit:
<http://www.venturecenter.co.in/puneguide/deluxe.php>
- For local transport details visit:<http://www.venturecenter.co.in/puneguide/taxi.php>

Schedule			
Time	Session title	Lead	Venue
Day 1			
0830 – 0845	Registration		Foyer, Learning Center
0845 – 0900	Introduction to the course and faculty	Dr. Manisha Premnath	Training Room
0900 – 1030	Lecture 1 – Basics of bright field & Fluorescence microscopy	Dr. Nishigandha Naik	Training Room
1030 – 1100	Tea / Snacks break		Foyer, Learning Center
1100 – 1300	Lecture 2 – LCM & its applications	Dr. Nishigandha Naik	Training Room
1300 – 1400	Lunch break		Cafeteria
1400 – 1500	Lab 1 – Alignment of microscope	Dr. Nishigandha Naik & Sujaya Ingale	AIL
1500 – 1530	Tea break		Cafeteria
1530 – 1700	Lab 2 – LCM demo - 3D imaging, Sample preparation, Participant's samples	Dr. Nishigandha Naik & Sujaya Ingale	Bio Lab-4
Day 2			
0830 – 0900	Lab 3 – Sample preparation contd.	Dr. Nishigandha Naik & Sujaya Ingale	Bio Lab-4
0900 – 1100	Lecture 3 – Advanced applications of LCM & Laser sheet microscopy	Dr. Nishigandha Naik	Training Room
1100 – 1130	Tea break		Foyer, Learning Center
1130 – 1300	Lab 4 – Time lapse cinematography	Dr. Nishigandha Naik & Sujaya Ingale	Bio Lab-4
1300 – 1400	Lunch break		Cafeteria
1400 – 1530	Lab 5 – Apoptosis detection	Dr. Nishigandha Naik & Sujaya Ingale	Bio Lab-4
1530 – 1600	Tea break		Cafeteria
1600 – 1700	Concluding session – Feedback, Certificate distribution	Dr. V. Premnath	Training Room



Anchor faculty	
	<p>Dr. Nishigandha Naik</p> <p>Assistant Director, Haffkine Institute for Training, Research and Testing, Mumbai.</p> <p>Dr. Naik has vast experience in the field of confocal microscopy. Her fields of interest are cytoskeletal proteins – actin and tubulin, formyl peptide receptors, antisense therapy, cellular, zebrafish and small animal imaging, chronic myeloid leukemia, breast cancer, glioblastoma.</p>

About the organizers	
	<p>About Venture Center</p> <p>Entrepreneurship Development Center (Venture Center) – a CSIR initiative – is a Section 25 company hosted by the National Chemical Laboratory, Pune. Venture Center strives to nucleate and nurture technology and knowledge-based enterprises by leveraging the scientific and engineering competencies of the institutions in the Pune region in India. The Venture Center is a technology business incubator supported by DST-NSTEDB. Venture Center focuses on technology enterprises offering products and services exploiting scientific expertise in the areas of materials, chemicals and biological sciences & engineering.</p> <p>For more information, visit http://www.venturecenter.co.in/</p>
	<p>About BioIncubator</p> <p>The BioIncubator at Venture Center aims to nucleate and nurture technology and knowledge-based enterprises leveraging knowledge in the areas of biotechnology (biopharma, agrobiotech, industrial biotech, clean technology), biomedical engineering/devices/ diagnostics, biomass value addition/ renewable fuels/chemicals/materials, bioinformatics, bio/medical services and related disciplines. Created with support from DBT-BIRAC under the Bioincubator Support Scheme. For more information, visit http://www.bioincubator.venturecenter.co.in/</p>
	<p>About Cell Studio</p> <p>Cell Studio is a facility of the BIRAC supported BioIncubator at Venture Center, NCL Innovation Park, Pune, India. The Cell Studio is home to advanced scientific facilities for microscopy and imaging, flow cytometry, cell growth studies and tissue engineering. The Cell Studio aims to support selected areas of technology development and science entrepreneurship while also nurturing collaborations between researchers and industry/startup companies.</p> <p>For more information, visit http://www.venturecenter.co.in/cellstudio/</p>